wavelength output from said laser diode from a predetermined target value;

a selector connected to said detectors so as to select either of said first and second control deviations; and

a manipulator arranged to manipulate one of said parameters so that said selected control deviation is reduced.

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5. An optical signal transmitter according to claim 2, wherein one of said parameters is laser temperature.

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4. An optical signal transmitter according to claim 2, wherein one of said parameters is driving current for driving said laser diode.

21
5. An optical signal transmitter according to claim 2, wherein said selector is constructed so as to select said first control deviation when said second control deviation is stably detected by said optical wavelength deviation detector, and to select said second control deviation when said second control deviation is not stably detected.

22
6. An optical signal transmitter comprising:

a laser module including a laser element, a temperature sensor and a cooling/heating element;

a first controller for stabilizing said optical wavelength;

a second controller for stabilizing said optical wavelength; and

a selector arranged so as to select either of output signals from said first and second

controllers according to the external conditions, so that stabilizing control of the optical

wavelength of said laser element is performed according to the output signal from the selected

controller, wherein:

said first controller comprises a temperature monitor coupled with said temperature

sensor to monitor the temperature of said laser element detected by the temperature sensor, a

first comparator coupled with said temperature monitor to detect the difference between the

output value of the temperature monitor and a laser temperature control target value, and a first

current controller coupled with said cooling/heating element to control the current flowing in the

cooling/heating element according to an output signal from said first comparator, and

said second controller comprises an optical coupler arranged to split the output light from

the laser module, an optical wavelength monitor coupled with said optical coupler to monitor the

wavelength of the split output light, a second comparator coupled with said optical wavelength

monitor to detect the difference between the monitored optical output wavelength value and a

wavelength control target value, and a second current controller coupled with said

cooling/heating element to control the current flowing in the cooling/heating element according

to an output signal from said second comparator.

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7.   An optical signal transmitter according to claim 6, wherein said first and second

current controller comprise a common current controller connected to said first and second

comparators through said selector.

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8.   An optical signal transmitter according to claim 6, further comprising:

a delay circuit coupled with said selector so as to delay the current control of said

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cooling/heating element based on said selected controller by a predetermined time after either of

said first and second controllers to be selected is determined.--

Fees

Any additional fees or charges required at this time in connection with this application

may be charged to Patent and Trademarks Office Deposit Account No. 12-2825.

Conclusion

In view of the aforementioned amendment and remarks, it is respectfully submitted that

all claims currently pending in the above identified application are now in condition for

allowance, the earliest possible notice of which is earnestly solicited. If in the Examiner's

opinion the prosecution of the present application would be advanced by a telephone interview,

he is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,

SOFER & HAROUN, L.L.P.
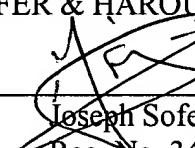
By _____
     Joseph Sofer
     Reg. No. 34,438
     342 Madison Avenue
     Suite 1921
     New York, NY

Dated: January 25, 2001   (212) 697-2800

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